

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-191963

(43)Date of publication of application : 21.08.1991

(51)Int.Cl.

A61L 27/00

(21)Application number : 01-331223

(71)Applicant : MITSUBISHI MATERIALS CORP

(22)Date of filing : 22.12.1989

(72)Inventor : MOMOTOMI TAKESHI

OKUBO YOSHITAKA

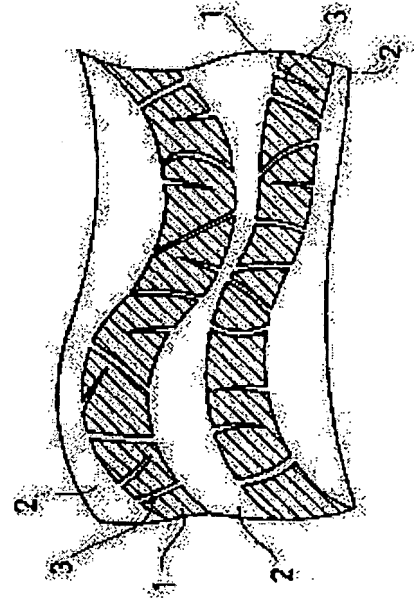
TAKEUCHI HIROYASU

## (54) CALCIUM PHOSPHATE POROUS BONE FILTER

### (57)Abstract:

**PURPOSE:** To enhance biocompatibility and to accelerate the formation of a new bone, in a calcium phosphate porous body having a three-dimensional reticulate structure provided with communicating void channels capable of permitting osteoblasts to penetrate through the porous body up to the central part thereof, by providing pores having a specific pore size to the skeletal of the porous body and setting the porosity to a specific ratio with respect to the void channels and the total voids of the pores.

**CONSTITUTION:** Pores 3 having a pore size of  $0.5\mu\text{m}$  or less are provided to a porous body skeletal 1 and the osteoblasts penetrating in void channels 2 also penetrate through the pores 3 and excellent biocompatibility not developed heretofore and the rapid formation of a new bone can be expected. The porosity of the pores is set to 5-50% of the void channels and the total voids of the pores. The total porosity of the void channels and the pores is pref. set to 40-97%.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]